HAZARDOUS MATERIALS
MANAGEMENT • TRAINING • LAB SERVICES

June 27, 2006

Joseph Jackson
Ethan Construction
3100 Airport Way S.
Seattle, WA 98134

NVL LABS HAZARDOUS MATERIALS SERVICES

RE: Bulk Asbestos Fiber Analysis, NVL Batch # 2608305.00

Dear Mr. Jackson,

Enclosed please find test results for the bulk samples submitted to our laboratory for analysis. Examination of these samples was conducted for the presence of identifiable asbestos fibers using polarized light microscopy (PLM) with dispersion staining in accordance with U.S. EPA/600/R-93/116 Test Method.

NVLAP Lab Code:102063

AIHA Environmental Lead and Industrial Hygiene ACCREDITED LABORATORY

For samples containing more than one separable layer of materials, the report will include findings for each layer (labeled Layer 1 and Layer 2, etc. for each individual layer). The asbestos concentration in the sample is determined by visual estimation.

For those samples with asbestos concentrations between 1 and 10 percent based on visual estimation, the EPA recommends a procedure known as point counting (NESHAPS, 40 CFR Part 61). Point counting is a statistically more accurate means of quantification for samples with low concentrations of asbestos. If you would like us to further refine the concentration estimates of asbestos in these samples using point counting, please let me know.

This report is considered highly confidential and will not be released without your approval. Samples are archived for two weeks following analysis. Samples that are not retrieved by the client are discarded after two weeks.

Thank you for using our laboratory services. Please do not hesitate to call if there is anything further we can assist you with.

Sincerely,

Nick Ly, Technical Director

NVL LABORATORIES, INC
4708 AURORA AVE N
SEATTLE, WA 98103.6516
TEL **206.547.0100**
FAX 206.634.1936
nvllabs@nvllabs.com

Enc.: Sample Results

www.nvllabs.com
1.888.NVL.LABS (685.5227)

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NVLAP #102063

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Ethan Construction
Address: 3100 Airport Way S.
Seattle, WA 98134

Attention: Mr. Joseph Jackson
Project Location: Former Rainier Brewery

Batch #: 2608305.00
Client Project #: 060626
Date Received: 06/26/2006
Samples Received: 4
Samples Analyzed: 4
Method: EPA/600R-93/116

Lab ID: 26050751 **Client Sample #: A**
Location: Former Rainier Brewery

Layer 1 of 3	**Description:** Black asphaltic material with silver paint			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Fine particles, Asphalt/binder, Metallic paint	Glass fibers	10%	**None Detected ND**
		Synthetic fibers	15%	
Layer 2 of 3	**Description:** Gray compressed fibrous material			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Fine particles, Adhesive/binder	Cellulose	97%	**None Detected ND**
Layer 3 of 3	**Description:** Black asphaltic fibrous material			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Asphalt/binder	Cellulose	90%	**None Detected ND**

Lab ID: 26050752 **Client Sample #: B**
Location: Former Rainier Brewery

Layer 1 of 5	**Description:** Black asphaltic material with silver paint			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Fine particles, Asphalt/binder, Metallic paint	Glass fibers	10%	**None Detected ND**
		Synthetic fibers	15%	
Layer 2 of 5	**Description:** Brown compressed fibrous material			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Fine particles, Adhesive/binder	Cellulose	97%	**None Detected ND**
Layer 3 of 5	**Description:** Layered black asphaltic fibrous material			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Asphalt/binder	Cellulose	75%	**None Detected ND**
Layer 4 of 5	**Description:** Black asphaltic mastic			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Asphalt/binder, Mastic/binder	None Detected	ND	**None Detected ND**

Sampled by: Client
Analyzed by: Nadia Prysyazhnyuk **Date:** 06/27/2006
Reviewed by: Nick Ly **Date:** 06/27/2006

Nick Ly, Technical Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using EPA 600/R-93/116 Method with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government.

RCLLC 0003259

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4708 Aurora Ave N, Seattle, WA 98103
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Fax: 206.634.1936 1.888.NVL.LABS (685.5227)

CHAIN of CUSTODY SAMPLE LOG

BATCH ID
2608305.00

Client Ethan Construction
Street 3100 Airport Way S.
Seattle, WA 98134
Project Manager Mr. Joseph Jackson
Project Location Former Rainier Brewery

NVL Batch Number _____
Client Job Number 060626
Total Samples _____
Turn Around Time ☐ 1-Hr ☐ 8-Hrs ☐ 2 Days ☐ 5 Days ☐ 2-Hrs ☐ 12-Hrs ☐ 3 Days ☐ 6-10 Day ☐ 4-Hrs ☒ 24-Hrs ☐ 4 Days
Please call for TAT less than 24 Hrs
Email address joseph@arieldevelopment.com

Phone: (206) 447-0263 **Fax:** (206) 447-0299 **Cell** (206) 724-1874

☐ Asbestos Air	☐ PCM (NIOSH 7400)	☐ TEM (NIOSH 7402)	☐ TEM (AHERA)	☐ TEM (EPA Level II) ☐ Other
☒ Asbestos Bulk	☐ PLM (EPA/600/R-93/116)	☐ PLM (EPA Point Count)	☐ PLM (EPA Gravimetry)	☐ TEM BULK
☐ Mold/Fungus	☐ Mold Air ☐ Mold Bulk	☐ Rotometer Calibration		

METALS	Det. Limit	Matrix		RCRA Metals		Other Metals
☐ Total Metals	☐ FAA (ppm)	☐ Air Filter	☐ Soil	☐ Arsenic (As)	☐ All 8	☐ All 3
☐ TCLP	☐ ICP (ppm)	☐ Drinking water	☐ Paint Chips in %	☐ Barium (Ba)	☐ Chromium (Cr	☐ Copper (Cu)
	☐ GFAA (ppl	☐ Dust/wipe (Area)	☐ Paint Chips in cn	☐ Cadmium (Cd)	☐ Lead (Pb)	☐ Nickel (Ni)
					☐ Mercury (Hg)	☐ Zinc (Zn)

☐ Other Types of Analysis ☐ Fiberglass ☐ Silica ☐ Nuisance Dust ☐ Respirable Dust ☐ Other (Specify) _____

Condition of Package: ☐ Good ☐ Damaged (no spillage) ☐ Severe damage (spillage)

Seq. #	Lab ID	Client Sample Number	Comments (e.g Sample are, Sample Volume, etc)	A/R
1	A	A	Letters are on Bags	
2	B	B	"	
3	C	C	"	
4	D	D	"	
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				

	Print Below	Sign Below	Company	Date	Time
Sampled by	Joseph Jackson	Joseph Jackson		6/23/06	noon
Relinquished by	Joseph Jackson	Joseph Jackson		6/23/06	1200 pm
Received by	Conrad Vernon	Conrad Vernon		6/26/06	11:55 am
Analyzed by	Nadia			6/27/06	11:19 AM
Results Called by					
Results Faxed by					

Special Instructions: Unless requested in writing, all samples will be disposed of two (2) weeks after analysis.
Send results to Conrad Vernon @ conrad.vernon@comcast.net
#(206) 686-2469
e-mailed by Nadia NVL 6.27.06

RCVD: Erin Lewis 6/27/06 11:45

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NVLAP #102063

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Ethan Construction
Address: 3100 Airport Way S.
Seattle, WA 98134

Attention: Mr. Joseph Jackson
Project Location: Former Rainier Brewery

Batch #: 2608305.00
Client Project #: 060626
Date Received: 06/26/2006
Samples Received: 4
Samples Analyzed: 4
Method: EPA/600R-93/116

Layer 5 of 5	**Description:** Black asphaltic fibrous material with gravel		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Asphalt/binder, Gravel	None Detected ND	**None Detected ND**

Lab ID: 26050753 **Client Sample #: C**
Location: Former Rainier Brewery

Layer 1 of 6	**Description:** Black asphaltic material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Asphalt/binder	None Detected ND	**None Detected ND**
Layer 2 of 6	**Description:** Silver paint		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Metallic paint	None Detected ND	**Chrysotile 2%**
Layer 3 of 6	**Description:** Black asphaltic material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Asphalt/binder	None Detected ND	**Chrysotile 2%**
Layer 4 of 6	**Description:** Black asphaltic fibrous material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Asphalt/binder	Glass fibers 15%	**None Detected ND**
Layer 5 of 6	**Description:** Layered black asphaltic fibrous material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Asphalt/binder	Cellulose 15%	**Chrysotile 45%**
Layer 6 of 6	**Description:** Tan compressed fibrous material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Fine particles, Binder/Filler, Perlite	Cellulose 65%	**None Detected ND**

Lab ID: 26050754 **Client Sample #: D**
Location: Former Rainier Brewery

Sampled by: Client
Analyzed by: Nadia Prysyazhnyuk **Date:** 06/27/2006
Reviewed by: Nick Ly **Date:** 06/27/2006

Nick Ly, Technical Director

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Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Ethan Construction
Address: 3100 Airport Way S.
Seattle, WA 98134

Attention: Mr. Joseph Jackson
Project Location: Former Rainier Brewery

Batch #: 2608305.00
Client Project #: 060626
Date Received: 06/26/2006
Samples Received: 4
Samples Analyzed: 4
Method: EPA/600R-93/116

Layer 1 of 4	**Description:** Black asphaltic fibrous material with granules			
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**	
	Asphalt/binder, Granules	Cellulose 20%	**None Detected**	**ND**
		Glass fibers 15%		
Layer 2 of 4	**Description:** Brown compressed fibrous material			
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**	
	Fine particles, Adhesive/binder	Cellulose 97%	**None Detected**	**ND**
Layer 3 of 4	**Description:** Black asphaltic fibrous material			
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**	
	Asphalt/binder	Glass fibers 40%	**None Detected**	**ND**
Layer 4 of 4	**Description:** Black asphaltic material			
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**	
	Asphalt/binder	None Detected ND	**None Detected**	**ND**

Sampled by: Client
Analyzed by: Nadia Prysyazhnyuk **Date:** 06/27/2006
Reviewed by: Nick Ly **Date:** 06/27/2006

Nick Ly, Technical Director

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